



# ***2011 JCTD Managers Conference***

## **Selection & Approval Process**

**Dan Petonito**

**September 20, 2011**

**Updated – December 29, 2011**

**JCTD Program Support**

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# ASD (R&E) Direction – *Build Agility into JCTD Process*



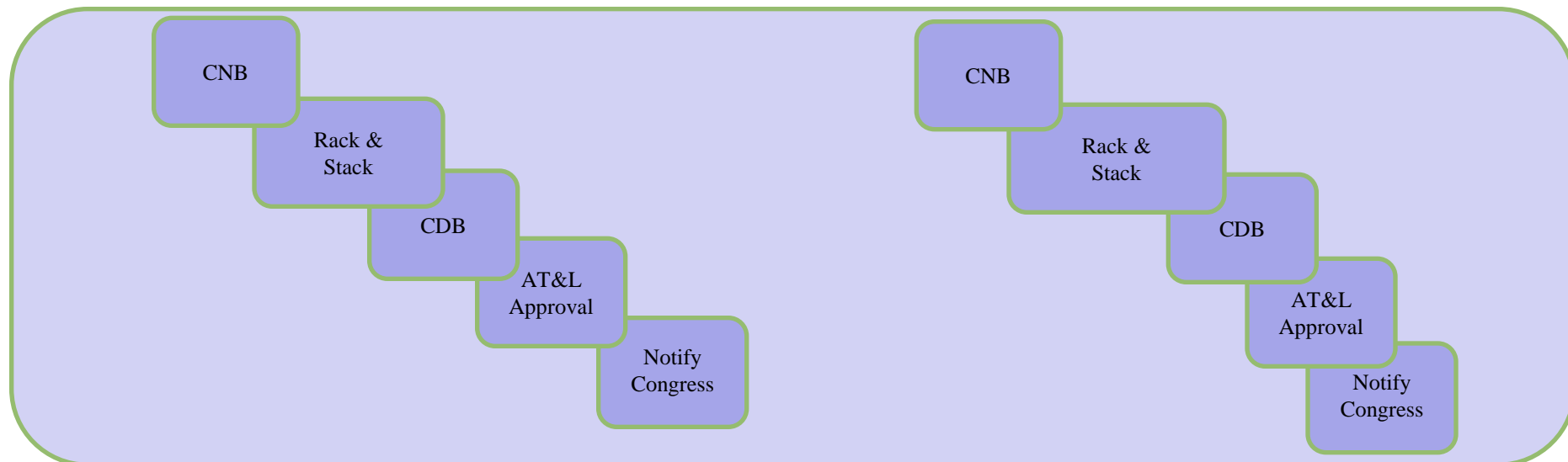
- *One-year performance cycles*
- *Tech push from multiple sources*
  - COCOM needs
  - Experimentation gaps
  - Promising technologies from RRTD, QRF, laboratories, industry, etc.
- *Quarterly new start Candidate Decision Boards*
- *Outcomes*
  - More smaller projects in play early
  - Healthy pressure to perform on transparent timelines
  - Fewer long term projects
  - Higher transition rates
  - **Better synchronization with COCOM experimentation efforts**
    - Aligned with JCTD cycles to test prototypes in operationally relevant environment, when available



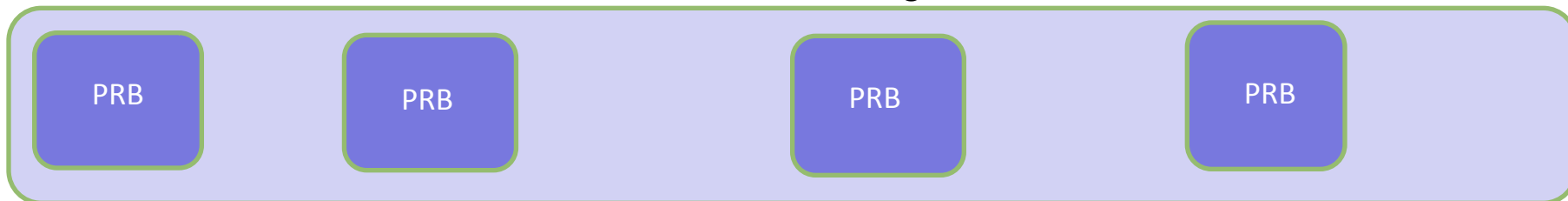
# JCTD Selection & Review Process

Apr May Jun Jul Aug Sept Oct Nov Dec Jan Feb Mar

## Selection of New JCTDs



## Review of Existing JCTDs





# Upcoming PRB/CDB Schedule



## October PRB

PRB Pre-briefed to the JCTD Director

Oct 7<sup>th</sup> (NLT)

PRB briefs in KIMS

Oct 13<sup>th</sup> (NLT)

Pre-brief JS Deputy J8

Oct 19-21<sup>st</sup>

Pre-brief ASD(R&E)

Oct 19-21<sup>st</sup>

PRB

Oct 27<sup>th</sup>

## January CDB

Candidate Nomination Board

Dec 6-7<sup>th</sup>

COCOM/Service Rankings Due

Jan 27<sup>th</sup>

Lunch Bunch Meeting (PCC, B2)

Feb 3<sup>rd</sup>

Coordinate CDB recommendations with Mr. Wyatt

Feb 6<sup>th</sup>

CDB/PRB briefs in KIMS

Feb 10<sup>th</sup> (NLT)

Pre-brief JS J8

Feb 13<sup>th</sup>

Pre-brief ASD(R&E)

Feb 13<sup>th</sup>

PRB/CDB

Feb 17<sup>th</sup>



# Key Terms/Definitions

**Annual Call Letter** – A request for JCTD proposals sent out every September that indicates proposals can be submitted at any time during the fiscal year.

**Candidate Nomination Board (CNB)** – The CNB reviews and approves which JCTD proposals will proceed to either the Service and COCOM “Rack & Stack” or the Candidate Decision Board.

**Candidate Decision Board (CDB)** – The CDB develops a list of JCTD proposals that will be recommended to the Under Secretary of Defense for Acquisition, Logistics & Technology (USD (AT&L)) for final approval.

**Rack & Stack** – A request to the Services and COCOMs to prioritize the JCTD proposals. Used to help identify a final list of proposals recommended to the CDB.

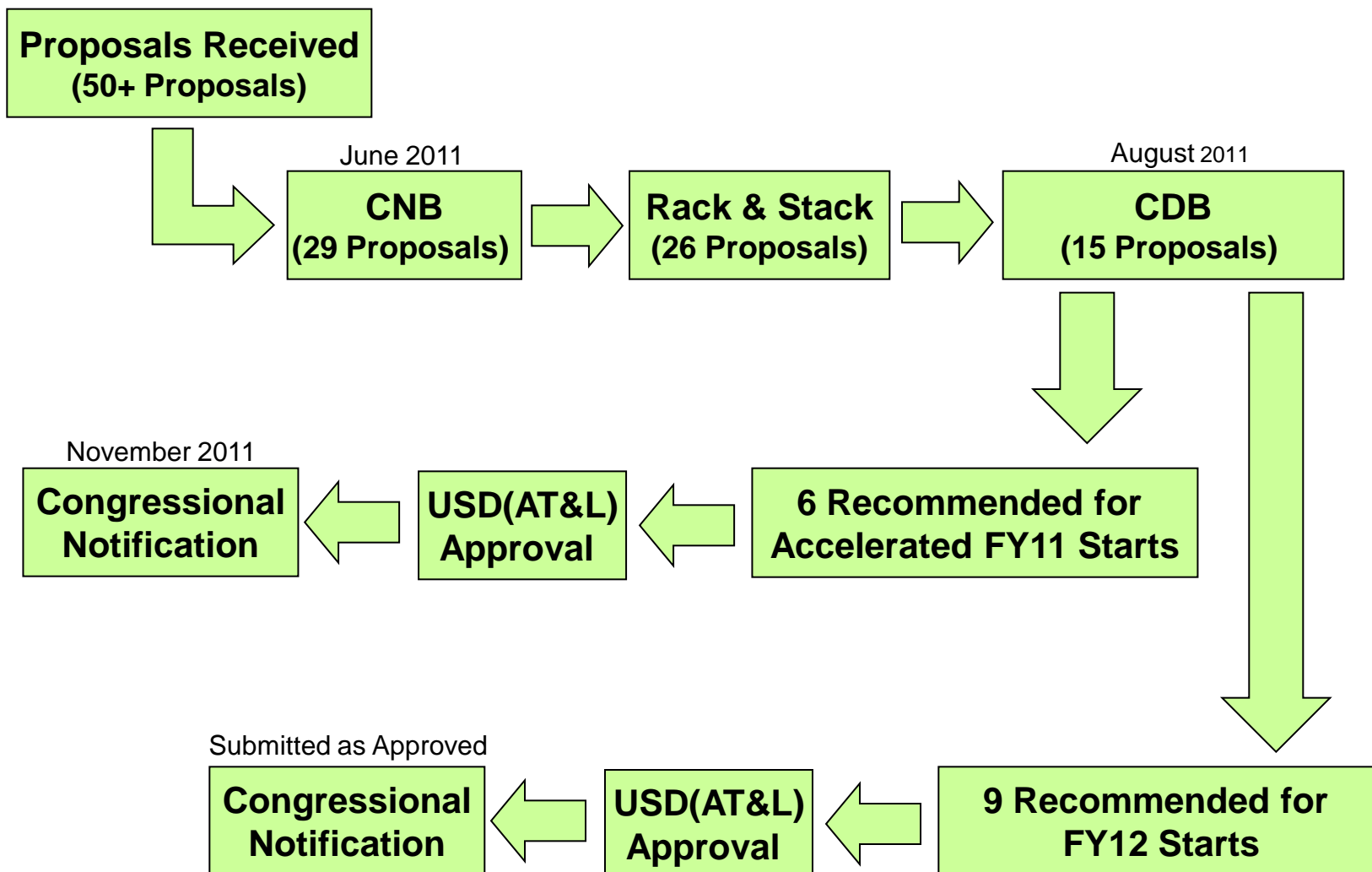
**Lunch Bunch Meetings** – Meetings held periodically during the JCTD review process to socialize JCTD proposals and review status of proposals and selection process. Attendees normally include Service, Agency, and Joint Staff representatives.

**Final Approval of JCTD Proposals** – List from the CDB is presented to the USD(AT&L) for final approval. Normally done as part of the Congressional Notification process.

**Congressional Notification** – Once JCTD proposals are approved by the USD(AT&L) the Department must submit a report to Congress indicating which JCTDs it plans to initiate. By law, we must wait 45 days before obligating funds to these JCTDs.



# JCTD Selection & Approval (Fiscal Year 2012 – July CDB)





# Required Documentation



- Briefing
- Quad Chart
- White Paper/Proposal Paper – Recommended

**Project information and documentation  
needs to be loaded into KIMS**



# Candidate Nomination Board



**Chair** – Director of Rapid Fielding

**Purpose** – Decide which JCTD proposals should go to the “Rack & Stack”

**Board Members** – Each COCOM, Service, and the Joint Staff Functional Capability Board is invited to send representatives.

**Attendees** – Depending on content, others may also be invited, such as representatives from Combat Support Agencies, other US government departments, other Joint offices, and partner nation defense research and development organizations

**Invitation to CNB** – The JCTD Program Director will determine if the proposals are ready for the CNB

**Role of Board members and Potential Stakeholders\*** – Indicate their organization’s intent for JCTD proposal under review:

- Fully supports and has identified the resources to execute the JCTD
- Interested, but additional work is needed to identify resources and/or obtain full commitment
- Do not support the JCTD candidate as briefed

**Joint Staff** – Provide preliminary assessment:

- Is candidate addressing a valid need?
- Is there any concern that the JCTD will be duplicating an existing or planned program?

**CNB Decisions** – Made by the Chairman after the Board has an opportunity to deliberate which JCTD proposals should go to “Rack & Stack”

\*Stakeholders – COCOM Sponsors, resource providers, and potential transition partners





# Candidate Decision Board



**Chair** – ASD (R&E) and co-chaired by Deputy J8, Joint Staff

**Purpose** – Decide which JCTD proposals should be sent to the USD (AT&L) for final approval

**Participants** – Stakeholders for JCTD proposals will be invited to participate

**Video Teleconference** – Available to enable maximum stakeholder participation

**Invitation to CDB** - JCTD proposals will in general go through a CNB prior going to the CDB. At a minimum the Director of Rapid Fielding will determine if the proposals are ready for the CDB.

**Briefer** – Director of the JCTD Program. One or more members of the proposal stakeholder team should be present to support the briefing

**CDB Decision** – ASD (R&E) and Deputy J8 will determine which JCTD proposals will be recommended to the USD (AT&L) for immediate start

**Proposals not Selected** – Proposals not identified by the CDB for immediate start will be deferred and can be resubmitted to a future CNB. Sponsors or proposers can also withdraw proposals from consideration



# Selection & Approval Consideration- Tech Readiness



Technology Readiness – Candidate Selection	
TRL 6-9	<b>T1/Green</b>
TRL 5	<b>T2/Yellow</b>
TRL 4	<b>T3/Red</b>
TRL 1-3	<b>T4/Red</b>



# Selection & Approval Consideration - Transition



Transition Commitment – JCTD Proposal Selection	CNB/CDB
Program or path has been identified, agreement reached and funding identified.	<b>Green</b>
Program or path has been identified and working with transition partner to reach final agreement.	<b>Yellow</b>
Program or path has not been identified.	<b>Red</b>

## Notes:

1. Funding includes the funds to support transition and follow-on sustainment. Committed funds indicate that the level of funding is known and funding sources have identified program elements. It is expected that once transition agreement is signed funds will be programmed. It is understood that any funds committed or programmed are subject to the POM.
2. The technology agreement could be a Technology Transition Agreement or signed documentation that identifies the transition strategy, path, timing, funding required, sources of funding, and who will be responsible for ensuring transition occurs.



# Selection & Approval Consideration - Management



**Green** – COCOM sponsor, Technical Manager (TM), Operational Manager (OM), and Transition Manager (XM) organizations identified and committed to executing program.

**Yellow** – All key participant organizations identified. However, one or two of the COCOM sponsor, TM, OM, XM organizations not fully committed to supporting the execution of the JCTD.

**Red** – Of COCOM sponsor, TM, OM, and XM more than two have not been identified or are not fully committed to supporting the execution of the JCTD.



# Selection & Approval Consideration – Funding



## Two Independent Considerations:

<b>Green</b>	90% or greater of all non-RF cash resources are committed by headquarters Service reps and/or Flag/SES or equivalents.	At least 50% of cash is from non-Rapid Fielding funds.
<b>Yellow</b>	60%-89% of all non-RF cash resources are committed by headquarters Service reps and/or Flag/SES or equivalents.	Between 25% and 49% of cash is from non-Rapid Fielding funds.
<b>Red</b>	Less than 60% of all non-RF cash resources are committed by Headquarters Service reps and/or Flag/SES or equivalents .	Less than 24% of cash is from non-Rapid Fielding funds.

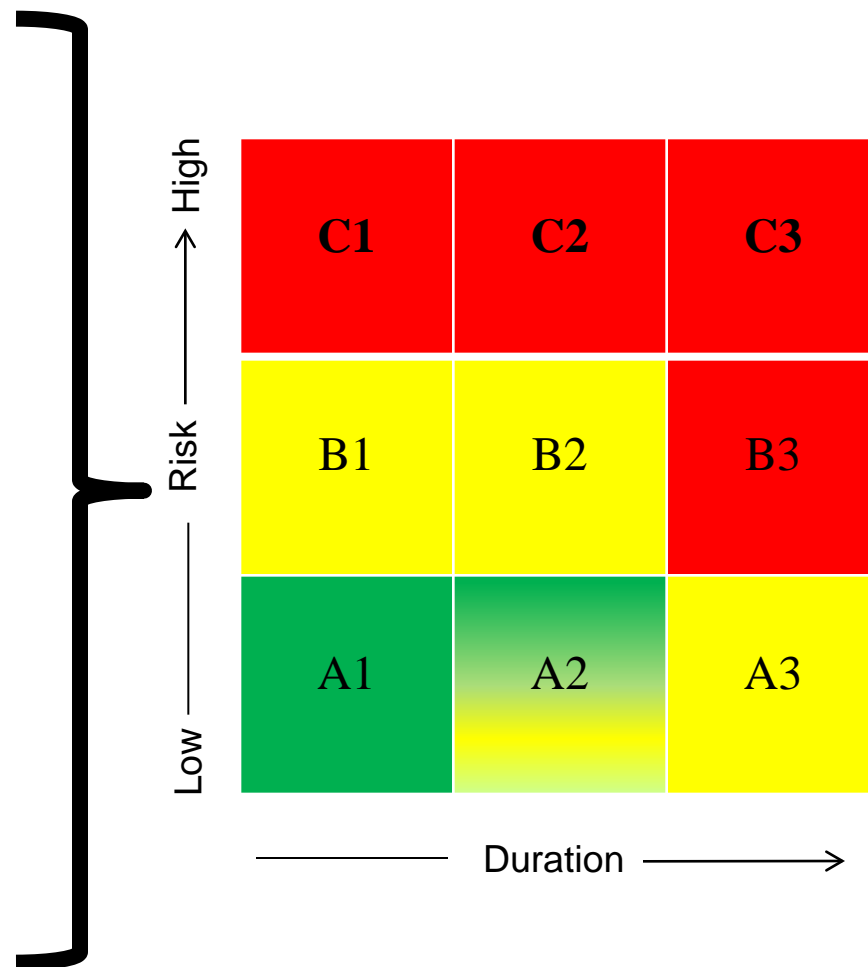
Note: Either consideration can make it green, yellow or red.



# Selection & Approval Consideration – Schedule (1 of 2)



Color	Duration of JCTD	Schedule Risk
Green	A - Project execution is anticipated to be 24 months or less from receipt of first RF funds or end of Congressional Notification period if no RF funds planned for first year.	1- Low.
Yellow	B - Project execution is anticipated to be between 24+ to 36 months from receipt of first RF funds or end of Congressional Notification period if no RF funds planned for the first year.	2- Medium
Red	C - Project execution is anticipated to be over 36 months from receipt of first RF funds or end of Congressional Notification period if no RF funds planned for the first year.	3 - High.





# Backup Slides

# Sample CNB Briefing



## JCTD Title

FY \_\_\_\_ - \_\_\_\_

Candidate Nomination Board (CNB)  
(Date of Board)

### Participants

- COCOM Sponsor: (organization)
- Oversight Executive: (name)
- Operational Manager: (organization & name)
- Technical Manager: (organization & name)
- Transition Manager: (organization & name)
- Other participants / partners (organizations & names)





# Operational Problem Statement



## COCOM Sponsor and Supporting Statement

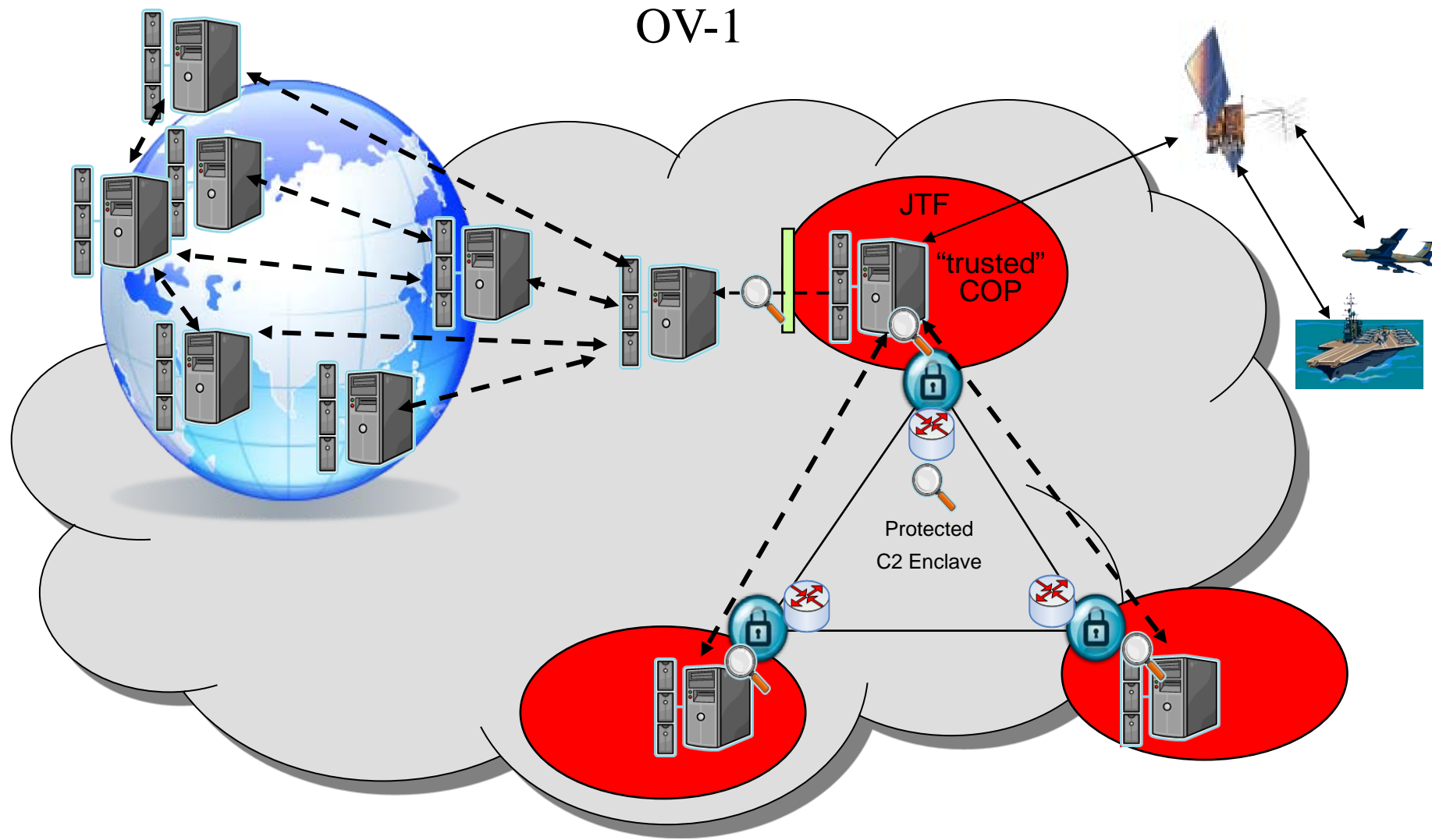
- Provide specific problem(s) being addressed by JCTD— be specific
- Current situation resulting from shortfall in capability
- Provide supporting evidence

*Tagline*



# JCTD Title

OV-1





# Technical Approach

- **Technical Idea/Approach – How are you addressing the Operational problem described?**
- **Expected Outcome**
  - Year 1

Specific Deliverable

- Year 2 (If necessary)

Specific Deliverable

- Year 3 (If necessary)

Specific Deliverable

(Use more than one slide if necessary)



# Core Technologies



Technology	Pre-JCTD	Post-JCTD
Architecture and Software		
Web-GIS Compatible Tools	9	9
Relational database interface tools	9	9
SOA for two-way data-sharing with DoD C2 systems	6	8
Database Management Tools	9	9
Visualization tools	8	8
Processing and Service Software	9	9
Communications and Networking		
IP, Web-Based, Commercially Secure Network	9	9

Identify primary technical challenge(s) and approach to overcome and/or potential alternatives



# Desired Capabilities



- **Technical**
- **Operational - CONOPS and TTP**

# Key Metrics

Parameter/Capability	Attribute	Measure	Metric	Baseline	Threshold	Objective
Effective Transmit Power	Effective Beamwidth	Power vs AZ/EL position from boresight	X-Mit power/ (Min required ERP)	>6 over $\pm 30^\circ$ -30° +5° EL	>1 over $\pm 20^\circ$ -20° +10° EL	TBD
Vehicle Power Generation	Power available to payload	Max. power Generation	Gen. Power Threshold	> 1	> 2	> 2
Payload Mass	Nosecone Mass properties	Weight/CG	Comparison with XYZ-T	Difference with XYZ-T < 5%	Difference with XYZ-T < 1%	Difference with XYZ-T < 1%
Payload Size	Form factor	Payload Volume	Volume/(max. avail volume)	< 5	< 1	<1
Payload Power Consumption	Payload power load	Power draw for select EA types	Power draw/(max avail power)	< 5	<1	<1



# Overall Demonstration Strategy & Plan



- **Technical Demonstrations**
- **Operational Demonstrations**
- **Joint Utility Assessment**

**(identify planned dates, locations, participants and objectives)**



# Schedule and Cost



Major Tasks	FY2010				FY2011								COST (\$K)
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q					
System procurement			■										250
Develop CONOPS / TTP and finalize			■	■									100
Develop and update Design and Plans (Systems, Training, Test, Security)			■	■	■								1400
Build and Test Software / Hardware Components			■		■								50
Install Integrated System				■		■							200
Technical Demonstration			▲				▲						400
Operator Training				■		■							150
Operational Demonstration and Assessments			▲	■	■	■	■	■					1150
Operational Utility Assessment Reports					▲				▲				200
Limited Operational Use									■	■	■	■	
Program Total													3900



Note: Start is contingent on funding availability.





# Detailed Cost Plan



PEOPLE JCTD Functional Cost Estimation (\$ Thousands)			
Task / Item	FY11	FY12	TOTAL
<b>Operational</b>			
Operational Utility Assessment (OUA) , Quick Look & Report	\$125	\$125	\$250
CONOPS/Functional Rqmts/TTP & OD Planning & Execution	\$475	\$425	\$900
Travel	\$25	\$25	\$50
<b>Operational Total Estimate</b>	<b>\$625</b>	<b>\$575</b>	<b>\$1,200</b>
<b>Technical</b>			
Datasets Integration and Test	\$1,289	\$409	\$1,698
Models Integration and Test	\$689	\$0	\$689
H/W & S/W & Licenses Procurements	\$1,615	\$144	\$1,759
System and Operational Architectures Design	\$400	\$170	\$570
H/W & S/W System Integration & Test	\$714	\$201	\$915
Training	\$0	\$20	\$20
Training Planning & Documentation	\$15	\$5	\$20
Technical Demonstration	\$96	\$0	\$96
Travel	\$60	\$40	\$100
<b>Technical Total Estimate</b>	<b>\$4,878</b>	<b>\$989</b>	<b>\$5,867</b>
<b>Transition</b>			
Transition Planning & Documentation	\$165	\$125	\$290
Travel	\$15	\$15	\$30
<b>Transition Total Estimate</b>	<b>\$180</b>	<b>\$140</b>	<b>\$320</b>
<b>TOTAL</b>	<b>\$5,683</b>	<b>\$1,704</b>	<b>\$7,387</b>



# Funding Plan

Oversight Executive

07-Mar-11

Name of OE

## FY11-14 RFD JCTD Funding Template

(For use in presenting FY-11 JCTD Candidate funding fair-share profiles)

Funding Risk: **Yellow**

Project Title - SAMPLE						Yellow \$\$ cells are formula driven.				
						(Dollars in Thousands)				
Organization	(Note 1) Commitment	Type of Funding	<sup>2</sup> Funding Description	<sup>3</sup> Program Element (PE)	Project #	FY-11	FY-12	FY-13	FY-14	Total
Army	Committed	RDT&E	Cash	0456255AST		\$ 300	\$ 300	\$ -	\$ -	\$ 600
NASA	Committed	RDT&E	Cash	0230585T4R		\$ 50	\$ 50	\$ -	\$ -	\$ 100
	TBD	RDT&E	Cash			\$ -	\$ -	\$ -	\$ -	\$ -
	TBD	RDT&E	Cash			\$ -	\$ -	\$ -	\$ -	\$ -
	TBD	RDT&E	Cash			\$ -	\$ -	\$ -	\$ -	\$ -
	TBD	RDT&E	Cash			\$ -	\$ -	\$ -	\$ -	\$ -
Total Service & Defense Agency (committed)						\$ 350	\$ 350	\$ -	\$ -	\$ 700
RFD	TBD	RDT&E/6.3	Cash	0603648D82	648	\$ 3,983	\$ 1,204	\$ -	\$ -	\$ 5,187
Total Cash Committed Funding:						\$ 4,333	\$ 1,554	\$ -	\$ -	\$ 5,887
Stated JCTD Cash Requirement						\$ 4,333	\$ 1,554	\$ -	\$ -	\$ 5,887
Delta to Cash Requirement						\$ -	\$ -	\$ -	\$ -	\$ -
Service/Agency Committed:		\$700								
Percent Cash Committed		100%				RFD Percent Total: Cash Only				88%
Funding Risk (Cash):		Yellow				RFD Percent Cash:				88%

## Dink Section

Organization	(Note 1) Commitment	Type of Funding	<sup>2</sup> Funding Description	<sup>3</sup> Program Element (PE)	Project #	FY-11	FY-12	FY-13	FY-14	Total
NASA	Committed	RDT&E	Dink			\$ 650	\$ 150	\$ -	\$ -	\$ 800
PDC	Committed	RDT&E	Dink			\$ 300	\$ -	\$ -	\$ -	\$ 300
DLR	Committed	RDT&E	Dink			\$ 200	\$ -	\$ -	\$ -	\$ 200
	TBD	TBD	Dink			\$ -	\$ -	\$ -	\$ -	\$ -
Total Cash & Dink Committed Funding:						\$ 5,483	\$ 1,704	\$ -	\$ -	\$ 7,187
Stated JCTD Cash & Dink Requirement						\$ 5,483	\$ 1,704	\$ -	\$ -	\$ 7,187
Delta to Cash & Dink Requirement						\$ -	\$ -	\$ -	\$ -	\$ -



# Risk Management & Mitigation Approach



Risk Factors (JCTD)		Risk Assessment	Mitigation Strategy	Expected Result
Operational	▪ Operational Users availability	Low	▪ Supplement partner nations personnel with Army participants .	▪ Users trained and available for OD
	▪ Facilities availability	Low	▪ Use of EUCOM provided facilities	▪ Facilities available for OD
Technical	▪ Loss of on-orbit assets	Low	▪ None Required	▪ All on-orbit assets available for TD & OD
	▪ Integration of DoD datasets	Low	▪ Initial focus on use of DoD commercially available data	▪ Targeted datasets integrated and functioning for TD and OD
Cost	▪ Data integration or modeling efforts	Medium	▪ Perform trade-off analysis for selection of data sets and modeling tools	▪ Technical and Operational Demonstrations successfully accomplished
Funding	▪ Partner Commitment s	Medium	▪ Co-develop & coordinate ID with partners	▪ Cash fully committed to JCTD
Schedule	▪ Coordination of technical and operational tasks	Medium	▪ Develop and maintain detailed WBS	▪ OD conducted as planned
Transition	▪ Resource commitment to transition capability	Medium	▪ Develop detailed Plan and Technology Transition Agreement. Obtain resource commitment.	▪ Transition is funded and immediately implemented following OD pending satisfactory OUA



# JCTD Partnerships



Partner/Specific Organization	Status	Impact (Funding & Operational)
	On board	
	On board	
	On board	
	On board	
	In Discussions	
	In discussion	
	On board	



# Transition Strategy



Identify current plan and status – where possible answer:

- What will be transitioned?
- Where will it be transitioned?
- Who will be responsible for making it happen?
- When will transition occur – will there be a gap from JCTD completion and transition – is there a plan to support during gap?
- What are expected cost of transition and funding sources?



# Summary



- Technical idea:
- Demonstration Approach:
- Deliverables:
  - Year 1:
  - Year 2 (If Applicable):
  - Year 3 (If Applicable):
- Transition:
- Recommendation: Approve \$ \_\_\_\_\_ Commitment of OSD/RFD Funds:

Organization	FY11	FY12	TOTAL
EUCOM	\$0.50	\$0.50	\$1.00
NGA	\$1.00	\$0.50	\$1.50
RFD	\$3.98	\$1.20	\$5.18
Dink (EUCOM, PDC, DLR)	\$1.20	\$0.15	\$1.50
TOTAL (\$ M)	\$6.83	\$2.35	\$9.18

Shade rows of  
uncommitted  
in Red



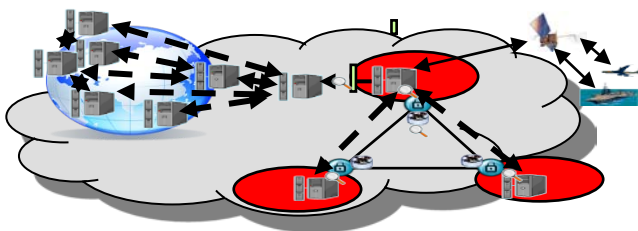
# Back-ups



# JCTD Title

Operational Problem:

OV-1:



Requirement:

Competing capabilities:

Specifics:

- Year 1:
- Year 2:

Technologies:

Transition:

Funding:

ORG	FY-10	FY-11	FY-12	TOTAL
Organization #1				
Organization #2				
OSD/RFD				
TOTAL				



# Sample CDB Briefing



**JCTD Title**

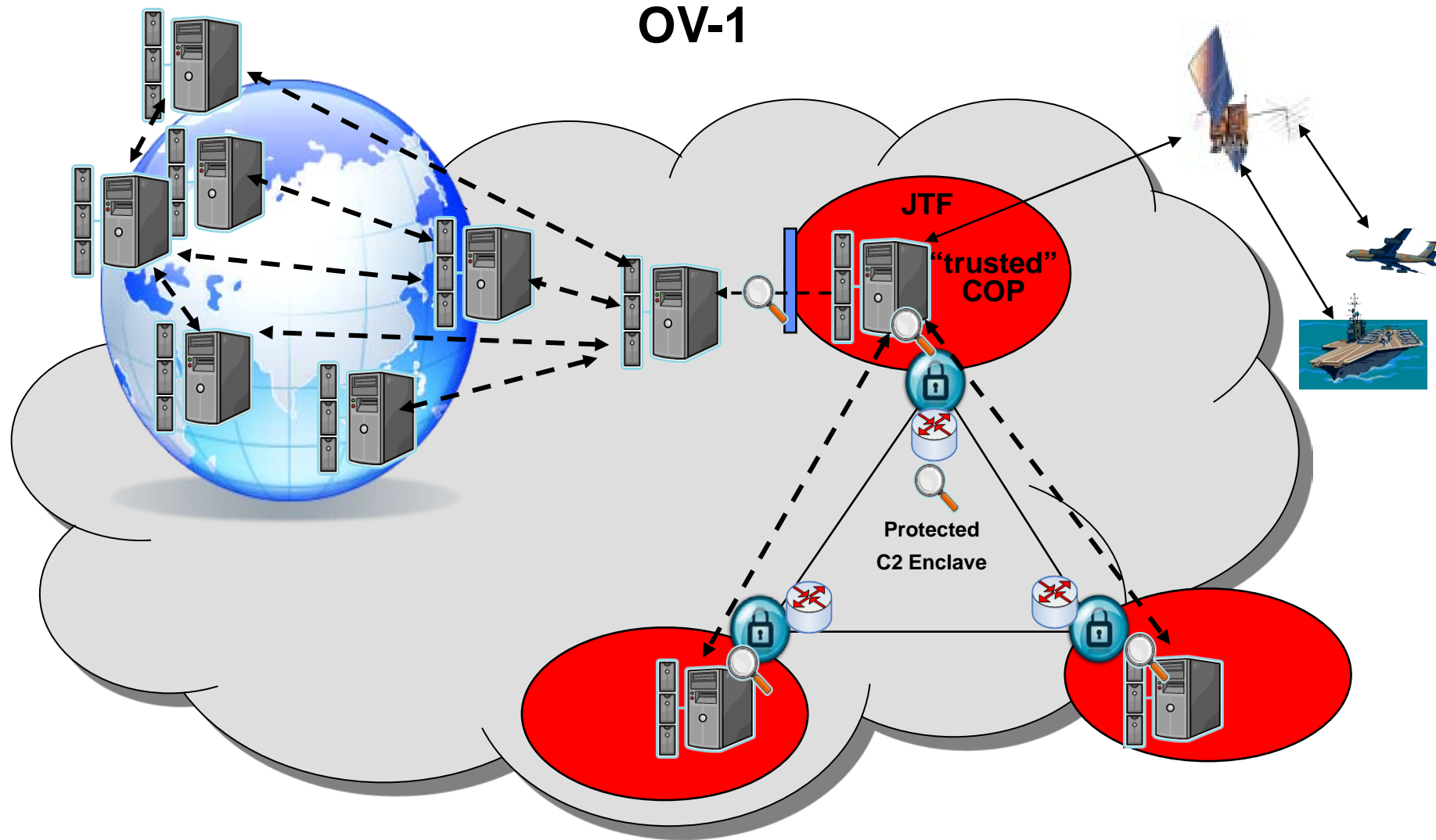
**Candidate Decision Board**  
**Date**

**COCOM Sponsor:**  
**Technical Manager:**  
**Operational Manager:**  
**Transition Manager:**  
**Other Participants/Partners:**  
**DDR&E/RFD:**



# JCTD Title

OV-1

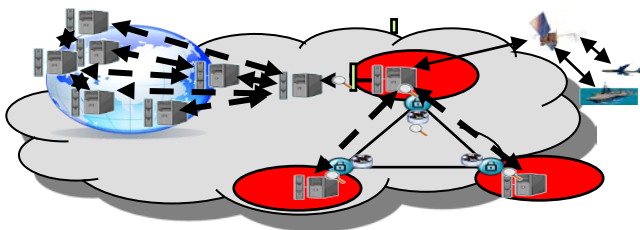




# JCTD Title

Operational Problem:

OV-1:



Specifics:

- Year 1:

Year 2 and beyond:

Requirement:

Transition:

Competing capabilities:

Funding:

ORG	FY-10	FY-11	FY-12	TOTAL
Organization #1				
Organization #2				
OSD/RFD				
TOTAL				



# Schedule and Cost



Major Tasks	FY2010				FY2011								COST (\$K)
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q					
System procurement			■										250
Develop CONOPS / TTP and finalize			■	■									100
Develop and update Design and Plans (Systems, Training, Test, Security)			■	■	■								1400
Build and Test Software / Hardware Components			■		■								50
Install Integrated System				■		■							200
Technical Demonstration			▲				▲						400
Operator Training				■		■							150
Operational Demonstration and Assessments			▲	■	■	■	■	■					1150
Operational Utility Assessment Reports					▲			▲					200
Limited Operational Use									■	■	■	■	
Program Total													3900



# Summary



- Technical Idea:
- Demonstration Approach:
- Deliverables:
  - Year 1
  - Year 2 if applicable
  - Year 3 if applicable
- Transition:
- Recommendation: Approve \$\_\_\_\_\_ commitment of OSD/RFD funds.

ORG	FY-10	FY-11	FY-12	TOTAL
Organization #1				
Organization #2				
OSD/RFD				
TOTAL				